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蝇子草属几个新植物

唐 昌 林
(绵阳地区药检所,四川)

FOUR NEW TAXA OF SILENE FROM CHINA

TANG CHANG-LIN
(Institute for Drug Control of Mianyang District, Sichuan)

Key Words *Silene*; *S. tubiformis*; *S. multifurcata*; *S. sericata*; *S. seoulensis* var. *angustata*

关键词 蝇子草属;剑门蝇子草;花脉蝇子草;绢毛蝇子草;狭叶汉城蝇子草

1. 剑门蝇子草 新种 图1

Silene tubiformis C. L. Tang, sp. nov.

Species haec *S. hupehensi* C. L. Tang proxima est, sed foliis linearibus, usque ad 2mm latis, margine supra medium eciliatis; calyce longe tubuloso; androgynophoro glabro, longiore, 8—12mm longo conspicue differt.

Herba perennis, 15—20cm alta, basi surculis sterilibus ornata; rhizoma gracile. Caules graciles, caespitosi, suberecti, simplices, glabri. Folia basalia fasciculata, linearia, 5—7cm longa, 1—1.5 (—2)mm lata, basi attenuata, apice acuminata, inferne margine ciliata, utrinque glabra, costa manifesta; caulina basalibus conformia, basiparum connata. Flores solitarius vel 2—3 cymam formantes, c. 20 mm diam.; pedicelli graciles, recti, 15—20mm longi, glabri; bracteae lineares vel lineari-lanceolatae, 10—20mm longae, basi ciliatae; calyx longe tubulosus, 20—25mm longus, 3—4mm crassus (in statu sicco), basi umbilicatus, herbaceus, purpureo-viridis, maturitate supra medium parum inflatus, ore apertus, dentibus triangularibus, 3—7mm longis, apice acuminatis, margine membranaceis, ciliatis, nervis 10 longitudinalibus inconspicuis, in dentibus conjunctis; androgynophorum glabrum, 8—12 mm longum; petala 20—25mm longa, unguibus calycem 2—3mm superantibus, oblanceolatis c. 15mm longis, 2—2.5mm latis, basi glabris, superne haud auriculatus, limbis patentibus, pallide purpureis, ambitu obcordatis 6—8mm longis, apice bilobatis, lobis integris; coronae lanceolatae, c. 1 mm longae, subintegrae vel obscure dentatae; stamina leviter exserta, filamentis filiformibus, glabris; styli 3, filiformes, 10—13mm longi, leviter exserti; ovarium anguste ellipsoideum, c. 6mm longum. Capsula anguste ellipsoidea, c. 10mm longa, 4—5mm lata,

6-dentibus, in Calyce inclusa vel 1mm exserta. Semina reniformes. c. 1.2mm longa, rubro-brunnea, latere leviter concava, tuberculata, dorso muricata accerime 3-seriatim tuberculata.

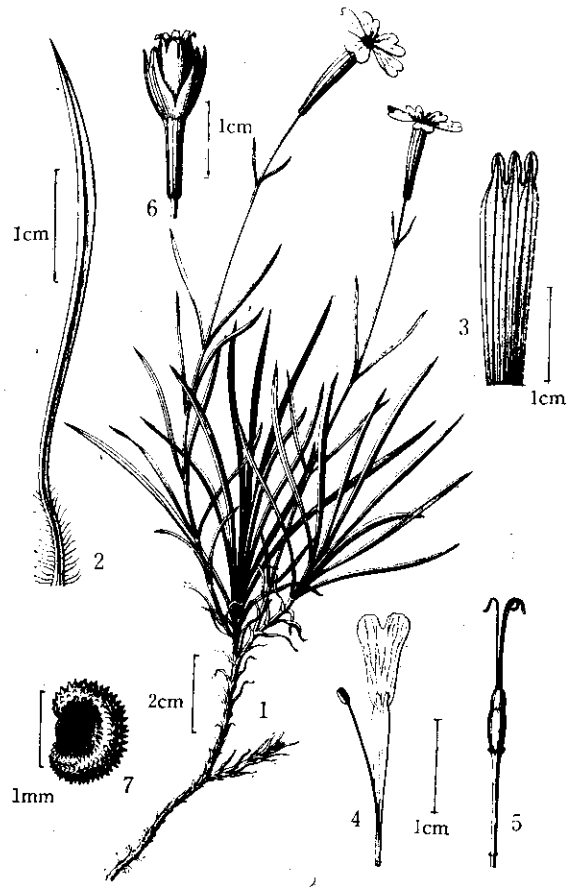

图 1 剑门蝇子草 *Silene tubiformis* 1.植株 plant; 2.叶 leaf; 3.花萼一部分(剖开) a part of the calyx, (opened up); 4.花瓣和雄蕊 petal and stamen; 5.雌蕊 pistil; 6.果实 fruit; 7.种子 seed. (李志民绘)

多年生草本,高 15—20cm,基部具不育枝。根茎细长。茎丛生,纤细,近直立,不分枝。基生叶簇生,线形,长 5—7cm,宽 1—1.5(—2)mm,基部渐狭,顶端渐尖,边缘基部具缘毛,两面无毛,中脉明显;茎生叶与基生叶同形,基部微合生。花单生或 2—3 朵成聚伞花序,直径约 20mm;花梗纤细,直立,长 15—20mm,无毛;苞片线形或线状披针形,长 10—20mm,基部具缘毛;花萼长筒状,长 20—25mm,宽 3—4mm,草质,基部脐形,无毛,紫绿色或带紫色,后期上部微膨大,口张开,萼齿三角状披针形,长 3—7mm,顶端渐尖,边缘膜质,具缘毛,纵脉 10 条,不明显,脉端在萼齿连合;雌雄蕊柄无毛,长 8—12mm;花瓣长 20—25mm,爪超出花萼 2—3mm,倒披针形,长约 15 毫米,宽 2—2.5mm,无毛和无耳,瓣片平展,淡紫色,轮廓倒心形,长 6—8mm,顶端浅 2 裂,裂片全缘;

副花冠披针形，长约 1mm，近全缘或具不明显齿；雄蕊微外露，花丝无毛；花柱 3，微外露，长 10—13mm。蒴果狭椭圆形，长约 10mm，宽 4—5mm，6 齿裂，全包宿萼内或微外露。种子肾形，长约 1.2mm，红褐色，两侧微凹，具小瘤，脊具 3 裂棘突。

四川 (Sichuan)：剑阁 (Jiange)，剑门关 (Jianmen mountain pass)，海拔 900m，岩石上，花红色，1978 6 16，剑阁队 (Jiange Exped.) 107 (type, preserved in Herbarium of Institute for Drug Control of Mianyang District, Sichuan)；广元 (Guangyuan)，剑门山 (Jianmem mountain)，海拔 700m，1978 7 18，广元队 (Guangyuan Exped.) 907。

本种与湖北蝇子草 *S. hupehensis* C. L. Tang 相似，区别在于叶线形，宽不超过 2 mm，边缘中上部无缘毛；花萼长筒状；雌雄蕊柄长 8—12mm，无毛等。

2. **绢毛蝇子草**　新种　图 2

Silene sericata C. L. Tang, sp. nov.

Species haec *S. gracilicauli* C. L. Tang similis est, a qua calycis dentibus extus dense albo-sericeis brevioribus; androgynophoro longiore, saepe 3—4mm longo; limbo ad 2/3 profunde bipartito differt.

Herba perennis, 20—45 cm alta. Radices crassiusculae, teretes. Caules numerosi, laxe caespitosi, erecti vel suberecti, simplices, glabri, plerumque basi rosulas steriles ferens. Folia basalia numerosa, lineari-oblanceolata vel linearia, 5—8cm longa, 1—2.5mm lata, basi in petiolum longe attenuata, semiamplexicaulia, apice acuta, margine inferne ciliata, utrinque glabra, costa manifesta; caulina pauca. Inflorescentia terminalis, racemosa, raro subpaniculata, ad nodos biflora pedicelli 5—10mm longi, glabri, saepe basi 2-bracteati; bracteae lanceolatae, 3—7mm longae, margine ciliatae; calyx tubuloso-campanulatus, 10—12mm longus, 4—5mm crassus (in statu sicco), basi umbilicatus, membranaceus, glaber, superne vel tamtum ad dentes sericeus, maturitate supra medium parum inflatus, ad fructum adpressus, ore se apertus, dentibus ovatis vel deltoideo-ovatis, 1—1.5mm altis, apice rotundatis vel obtusis, raro mucronatis, extus dense breveque albo-sericeis, margine ciliatis, nervis 10 longitudinalibus purpuratis; androgynophorum puberulum, 3—4mm longum; petala alba (pallide purpurata ?), unguibus calyce c. 1—2mm exsertis, spathulato-oblanceolatis, 10—12mm longis, c. 2mm latis, glabris, superne haud auriculatis, limbis ambitu anguste obovatis, 5—6mm longis, ad partes duae tertiae vel etiam profunde bipartitis, lobis oblanceolatis vel linearibus, integris, apice rotundatis; coronae anguste oblongae vel lanceolatae, c. 1mm longae, integrae vel apice incisae; stamina conspicue exserta, filamentis filiformibus, 12—14mm longa, glabra; styli 3, filiformes, conspicue exserti, c. 12mm longi; ovarium anguste oblongum, c. 5mm longum. Capsula ovoidea, 6—8mm longa, inclusa. Semina reniformia, c. 1.2mm longa, rubro-brunnea vel cinereo-brunnea, utrinque striata, dorso acute canaliculata, 7-seriatim tuberculata.

多年生草本，高 20—45cm。主根粗壮，圆柱形。茎多数，疏丛生，直立或近直立，不分枝，无毛，基部常具不育短枝。基生叶多数，线状倒披针形或线形，长 5—8cm，宽 1—2.5mm，基部渐狭成长柄状，半抱茎，顶端急尖，下部边缘具缘毛，两面无毛，中脉明显；茎

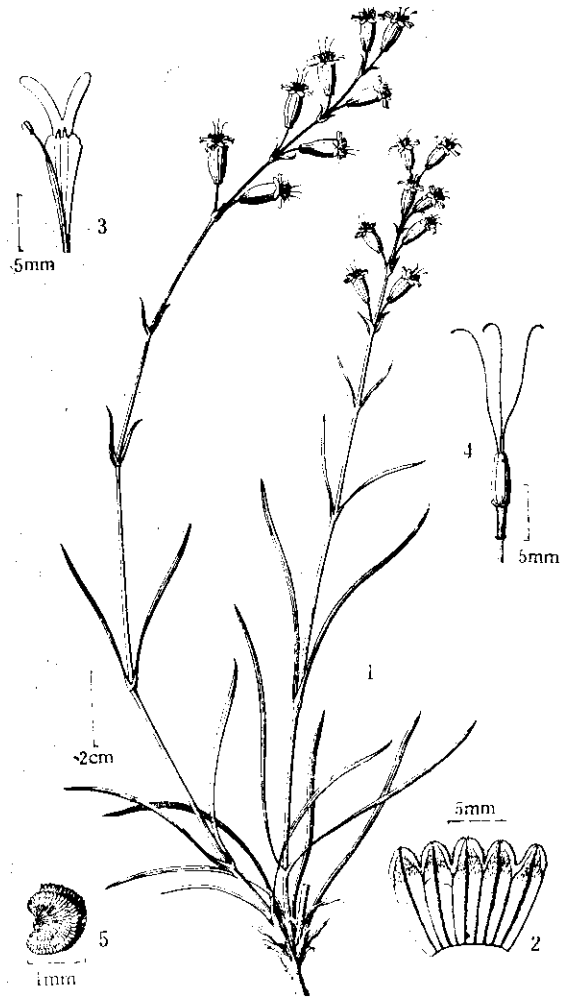

图 2 绢毛蝇子草 *S. sericata* 1.植株 plant; 2.花萼(剖开) calyx, opened up; 3.花瓣和雄蕊 petal and stamen; 4.雌蕊 pistil; 5.种子 seed. (李志民绘)

生叶少数。花序顶生,总状,稀近圆锥状,花对生;花梗长 5—10mm, 无毛,基部常具 2 小苞片;苞片披针形,长 3—7mm, 具缘毛;花萼筒状钟形,长 10—12mm, 宽 4—5mm, 基部脐形,膜质,无毛,上部或仅萼齿被绢毛,果期中上部微膨大,紧贴果实,口张开,萼齿卵形或三角状卵形,长 1—1.5mm, 顶端圆或钝,稀具突尖,被白色短绢毛,边缘具缘毛,纵脉 10 条,紫色,脉端在萼齿连合;雌雄蕊柄被短柔毛,长 3—4mm;花瓣白色(淡紫色?),爪超出花萼 1—2mm, 匙状倒披针形,长 10—12mm, 宽约 2mm, 无毛,无明显耳,瓣片轮廓狭倒卵形,长 5—6mm, 2 裂达 2/3 或更深,裂片倒披针形或条形,全缘,顶端圆形;副花冠狭长圆形或披针形,长约 1mm, 全缘或顶端微凹;雄蕊明显外露,长 12—14mm, 花丝无毛;花柱 3, 外露,长约 12mm; 子房狭椭圆状,长约 5mm。蒴果卵球形, 长 6—8mm, 包于宿萼内。种子肾形,长约 1.2mm, 红褐色或暗褐色,两侧具条形突起,脊具锐槽,有 7 列小瘤。

宁夏 (Ningxia): 固原 (Guyuan), 和尚铺 (Heshangpu), 海拔 2700m, 花白色,

1953 8 6，王作宾 17138 (type, PE; Isotype, WUG.)；泾源，王作宾 13562；同心，黄河队 7818。

甘肃 (Gansu)：平凉，黄河队 2163。

本种与细蝇子草 *S. gracilicaulis* C. L. Tang 相似，区别在于萼齿密被白色绢毛；雌雄蕊柄长 3—4mm；花瓣片 2 裂深达 2/3。

3. **狭叶汉城蝇子草**　新变种

Silene seoulensis Nakai var. **angustata** C. L. Tang, var. nov.

Folia anguste lanceolata, 3—4cm longa, 5—10mm lata; calyx dense pubescens.

叶狭披针形，长 3—4cm，宽 5—10mm；花萼密被短柔毛。

辽宁 (Liaoning)：凤城 (Fengcheng)，凤凰山，1909 8 30，Y. Yabe (矢部吉祯) without num. (江苏省植物所标本号 105831) (type, JSBI).

4. **花脉蝇子草**　新种　图 3

Silene multifurcata C. L. Tang, sp. nov.——*Melandrium fimbriatum* auct. non (Wall. ex Benth.) Walp.: L. H. Zhou in C. Y. Wu, Fl. Xizangica **1**: 719. fig. 231. 1983.

Species haec *S. indicae* Roxb. ex Otth affinis, sed foliis ellipticis vel lanceolatis, 5—10cm longis, 2—4cm latis; calycis nervis in dentibus conjunctis; petali limbo bipartito differt.

Herba perennis 30—40cm alta, rhizomate praedita. Caules laxe caespitosi, graciles, ascendentes, simplices, pilosi. Folia basalia oblanceolata, longiore petiolata; caulina superiora subsessilia, elliptico-lanceolata vel oblanceolata, 5—8cm longa, 8—12mm lata, basi cuneata, apice acuminata, utrinque subglabra, margine laxe ciliata, uninervia vel. triplinervia, sed tantum costa conspicua. Inflorescentia cymoso-paniculata, oligantha; pedicelli graciles, 2—3cm longi, dense puberuli vel laxe glanduloso-pubescentes; bracteae lanceolatae vel lineari-lanceolatae, dense pubescentes, margine ciliatae; calyx anguste campanulatus, 15—18mm longus, 8—11mm crassus (in statu sicco), pubescens et laxe glanduloso-pubescens, secus nervos pilis densioribus tectus, maturitate leviter inflatus, ad fructum nec adpressus, ore apertus, nervis 10 longitudinalibus purpurellis, multifurcatis, nervulis saepe anastomosantibus, dentibus triangulari-ovatis, 3—4mm longis, apice rotundatis, margine membranaceis ciliatis; androgynophorum pubescens, c. 3mm longum; petala purpurea, c. 20mm longa, unguibus calyce vix longioribus, luteo-virentibus, cuneiformibus, c. 12mm longis, basi glabris superne late auriculatis, limbis conspicue exsertis, patentibus, quadripartitis, lobis centralibus ambitu oblongis, saepe bilobatis vel incisis, lateralibus minoribus, linearibus; coronae late subflabellatae, c. 2mm longae, apice irregulariter serrulatae; stamina leviter exserta, filamentis filiformibus, 10—13mm longis, basi glabris; styli 5 (raro 4), inclusi vel leviter exserti. Capsula (immatura) ellipsoidea, 10—12mm longa, in calyce inclusa, apice 5 dentibus vel valvis dehiscens. Semina reniformia, atrofusca, c. 1mm longa, tuberculata, dorso plana convexave, acute tuberculata.

多年生草本，高 30—40cm，具根状茎。茎疏丛生，纤细，上升，不分枝，被疏柔毛。下部茎生叶倒披针形，具长柄；上部茎生叶无柄，椭圆状披针形或倒披针形，长 5—8cm，

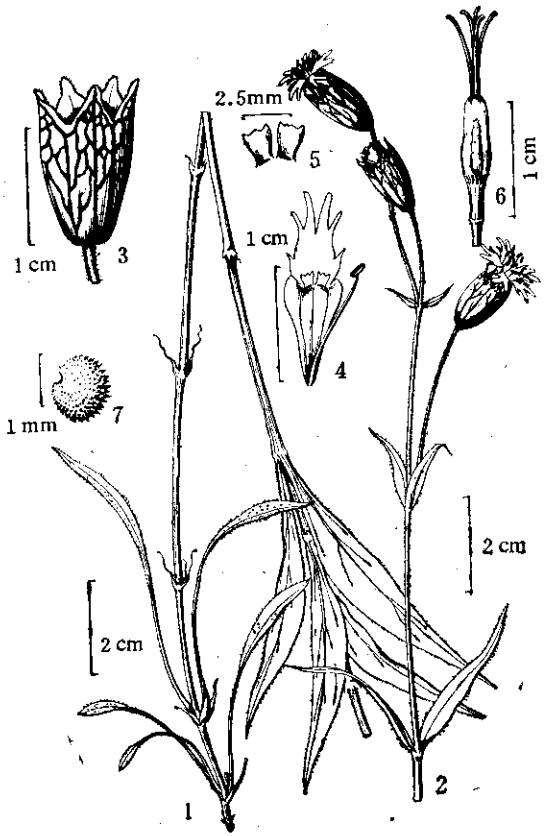

图 3 花脉蝇子草 *Silene multifurcata* C. L. Tang 1.茎一部分 a part of the stem; 2.花枝 flowering branch; 3.花萼 calyx; 4.花瓣 petal; 5.副花冠 corona; 6.雌蕊 pistil; 7.种子 seed.（钱存源绘）

宽 8—12mm，基部楔形，顶端渐尖，两面近无毛，边缘具疏缘毛，具 1 主脉或 3 基出脉，以中脉较明显。花序聚伞圆锥式，具少数花，花梗纤细，长 2—3cm，密被短柔毛或稀疏腺柔毛；苞片披针形或线状披针形，被密柔毛和缘毛；花萼狭钟形，长15—18mm，宽 8—11 mm(干状态)，被柔毛和稀疏腺毛，沿脉较密，果期微膨大，不紧贴果实，口张开，具 10 条紫色纵脉，脉多分叉，微呈网结状，萼齿卵状三角形，长 3—4mm，边缘膜质，具缘毛；雌雄蕊柄被柔毛，长约 3mm；花瓣紫色，长约 20mm；爪几不超出花萼，黄绿色，楔形，长约 12mm，无毛，上部具耳，瓣片外露，平展，深 4 裂，中裂片轮廓长圆形，顶端浅 2 裂或具缺刻，侧裂片小，线形；副花冠近扇形，长约 2mm，顶端具不规则细齿；雄蕊微外露，长 10—13mm，花丝丝状，无毛；花柱 5（稀 4），内藏或露外露。蒴果(未成熟)椭圆状，长 10—12mm，5 齿裂或 5 瓣裂，包于宿萼内。种子肾形，暗褐色，长约 1mm，具小瘤，脊平或圆形，具棘突。

西藏 (Xizang)：错那 (Cuona Xian)，海拔 2600m；花萼具紫脉，花瓣外面紫色，内面黄绿色 (calycis nervis purpureis, limbus supra luteo-viridi, subtus purpureio)，1975 8 26，青藏队 (Qinghai- Xizang Exped.) 751725 (type, PE)；同地，青藏队751857。

本种与印度蝇子草 *S. indica* Roxb. ex Otth 相似，区别为后者叶椭圆形或卵状披针形，长 5—10cm，宽 2—4cm；萼脉不分叉，在萼齿联合，不呈网结状；花瓣片 2 裂。